

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
11 August 2005 (11.08.2005)

PCT

(10) International Publication Number  
WO 2005/072858 A1

(51) International Patent Classification<sup>7</sup>: B01J 4/02, (74) Agent: OYER, Timothy, J.; Wolf, Greenfield & Sacks, B01L 3/00 P.C., 600 Atlantic Avenue, Boston, MA 02210 (US).

(21) International Application Number: PCT/US2005/003514

(22) International Filing Date: 26 January 2005 (26.01.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/539,358 26 January 2004 (26.01.2004) US  
60/539,416 26 January 2004 (26.01.2004) US  
60/565,866 26 April 2004 (26.04.2004) US

(71) Applicant (for all designated States except US): PRESIDENT AND FELLOWS OF HARVARD COLLEGE [US/US]; 17 Quincy Street, Cambridge, MA 02138 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): SIA, Samuel, K. [CA/US]; 300 Western Avenue #3, Cambridge, MA 02138 (US). LINDER, Vincent [CH/CH]; c/o A. Linder, Rue de Soleure 11, CH-2525 Le Landeron (CH). WHITESIDES, George, M. [US/US]; 124 Grasmere Street, Newton, MA 02158 (US). PARVIZ, Babak, Amir [IR/US]; 620 N34th Street, Apt. #625, Seattle, WA 98103 (US). SIEGEL, Adam [US/US]; 35 Oxford Street, Cambridge, MA 02138 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

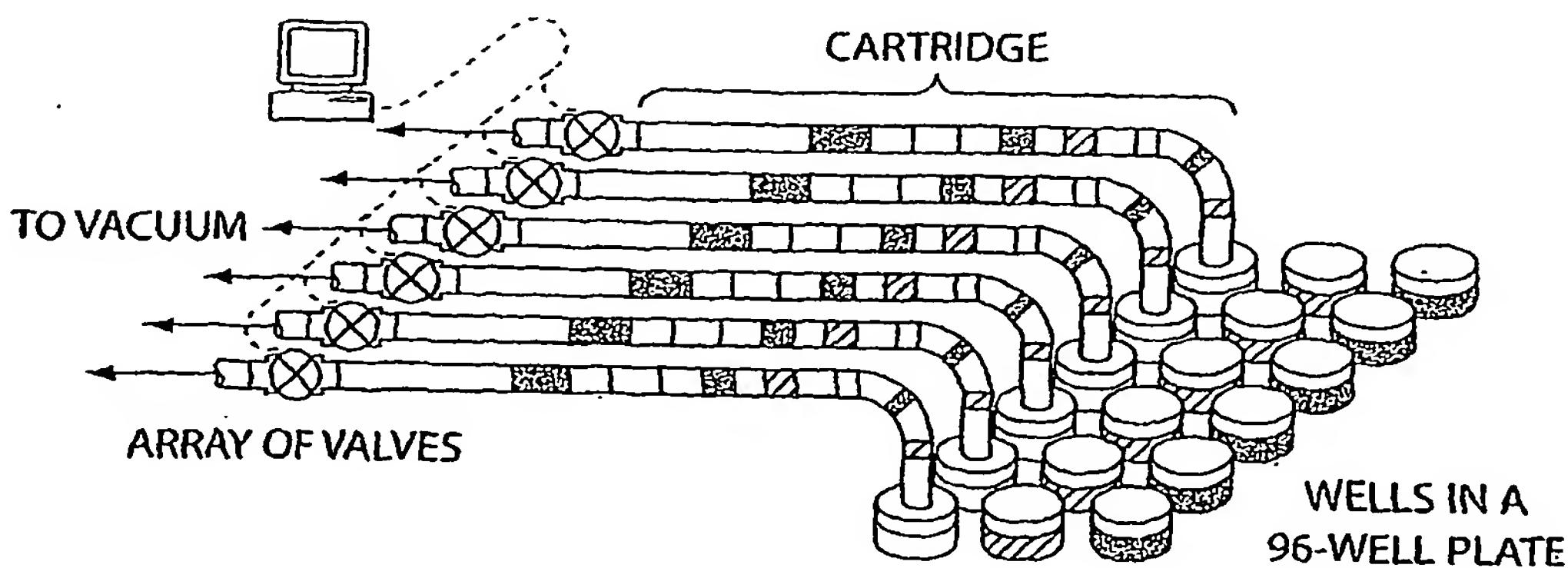
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- with amended claims

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: FLUID DELIVERY SYSTEM AND METHOD



WO 2005/072858 A1

(57) Abstract: Method and device for storing and/or delivering fluids, wherein at least a first and a second fluid, such as chemical or biochemical reagents or rinse solutions, are maintained separately from each other in a common vessel and transferred in series from the vessel to a reaction site to carry out a predetermined chemical or biochemical reaction. Separation may be achieved by interposing a third fluid, e.g., a gaseous fluid plug, between the first and second fluids.

THIS PAGE BLANK (USPTO)